

AMENDMENTS TO THE CLAIMS:

Claims 1, 3-8, 10-12, 14-32, 34 and 35 are currently pending in this application. Claims 1 and 32 are amended herein. This listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS:

1. (Currently Amended) A hydrostatic delivery system comprising a hydrostatic couple and an agent of interest, said hydrostatic couple comprising one, or more than one hydrodynamic fluid-imbibing polymer, and one, or more than one hydrostatic pressure-modulating agent, wherein:

said one, or more than one hydrostatic pressure-modulating agent comprises a hydrophilic cross-linked polymer,

~~wherein~~ the weight ratio of said one, or more than one hydrodynamic fluid-imbibing polymer to said one, or more than one hydrostatic pressure modulating agent is from about 35:1 4:1 to about 170:1 99:1; ~~and, and the weight ratio of said one, or more than one hydrodynamic fluid-imbibing polymer to said agent of interest is from about 1:1 to about 9:1,~~ and ~~wherein~~ said agent of interest is released at a rate that is substantially concentration independent.

Claim 2 (Cancelled).

3. (Previously Presented) The hydrostatic delivery system of claim 1, wherein said one, or more than one hydrodynamic fluid-imbibing polymer is a cross-linked polymer having a swell capacity in a fluid environment of between about 1 weight % to about 3000 weight %.

4. (Original) The hydrostatic delivery system according to claim 3, wherein said cross-linked polymer is present from about 4 weight % to about 96 weight % of the total formulation.

5. (Previously Presented) The hydrostatic delivery system according to claim 1, wherein said one, or more than one hydrostatic pressure modulating agent is a cross-linked, rapidly swelling polymer having a swell capacity in a fluid environment of between about 0.5 weight % to about 500 weight %.

6. (Previously Presented) The hydrostatic delivery system according to claim 5, wherein said cross-linked rapidly swelling polymer is present from about 0.5 weight % to about 50 weight % of the total formulation.

7. (Previously Presented) The hydrostatic delivery system according to claim 1, wherein said one, or more than one hydrostatic pressure modulating agent further comprises an expansion source.

8. (Original) The hydrostatic delivery system according to claim 7, wherein said expansion source is selected from the group consisting of a carbon-dioxide precursor, an oxygen precursor, and a chlorine dioxide precursor.

Claim 9 (Cancelled).

10. (Previously Presented) The hydrostatic delivery system according to claim 3, wherein:

said one, or more than one hydrostatic pressure modulating agent further comprises an expansion source selected from the group consisting of a carbon dioxide precursor, an oxygen precursor and a chlorine dioxide precursor.

11. (Previously Presented) The hydrostatic delivery system according to claim 1 wherein the agent of interest comprises a plurality of discrete active particulates.

12. (Previously Presented) The hydrostatic delivery system according to claim 1, wherein:

said one, or more than one hydrodynamic fluid-imbibing polymer comprises one or more of the compounds selected from the group consisting of:

- i) an acrylic-acid polymer cross-linked with allylsucrose or allylpentaerythritol;
- ii) one or more starch derivatives cross-linked by epichlorhydrin, phosphorous oxychloride (POCl_3), or sodium trimetaphosphate;
- iii) a crosslinked polyglucan;
- iv) a crosslinked polyacrylate resin;
- v) a crosslinked polyethylenimine;
- vi) a crosslinked polyallylamine, and

a combination thereof, and

wherein said one, or more than one hydrostatic pressure modulating agent comprises one or more of the compounds selected from the group consisting of:

- a) a homopolymer of cross-linked N-vinyl-2-pyrrolidone;
 - b) a rapidly expanding cross-linked cellulose derivative; and
- a combination thereof.

Claim 13 (Cancelled).

14. (Previously Presented) The hydrostatic delivery system according to claim 1, wherein said one, or more than one hydrodynamic fluid-imbibing polymer is an acrylic-acid polymer cross-linked with allylsucrose or allylpentaerythritol.

15. (Original) The hydrostatic delivery system according to claim 14, wherein said acrylic-acid polymer has a viscosity from about 3,000 centipoise to about 45,000 centipoise at 0.5% w/w concentration in water at 25°C.

16. (Original) The hydrostatic delivery system according to claim 15, wherein said acrylic-acid polymer has a primary particle size range from about 3.00 to about 10.00 microns in diameter.

17. (Previously Presented) The hydrostatic delivery system according to claim 1, wherein said one, or more than one hydrodynamic fluid imbibing polymer is a polyglucan selected from the group consisting of amylose, dextran, pullulan succinate containing diester or diether crosslinks, pullulan glutarates containing diester or diether crosslinks, and a combination thereof.

18. (Previously Presented) The hydrostatic delivery system according to claim 1, wherein said one, or more than one hydrostatic pressure modulating agent comprises a homopolymer of cross-linked N-vinyl-2-pyrrolidone.

19. (Previously Presented) The hydrostatic delivery system according to claim 18, wherein said cross-linked N-vinyl-2-pyrrolidone has a particle size from about 9 microns to about 150 microns.

20. (Previously Presented) The hydrostatic delivery system according to claim 1, wherein said one, or more than one hydrostatic pressure modulating agent is a rapidly expanding cross-linked cellulose derivative selected from the group consisting of cross-linked carboxymethyl cellulose, sodium starch glycolate, and a combination thereof.

21. (Previously Presented) The hydrostatic delivery system according to claim 8, wherein said carbon dioxide precursor is selected from the group consisting of carbonates, sesquicarbonate, hydrogen carbonate, potassium carbonate, lithium carbonate, sodium carbonate, ammonium carbonate, sodium amino acid carbonate, sodium glycine carbonate, L-lysine carbonate and arginine carbonate.

22. (Original) The hydrostatic delivery system according to claim 8, wherein said oxygen precursor is selected from the group consisting of sodium percarbonate, sodium

perborate monohydrate, anhydrous sodium perborate, effervescent perborate, and sodium dichloroisocyanurate.

23. (Original) The hydrostatic delivery system according to claim 8, wherein said chlorine dioxide precursor is selected from the group consisting of sodium hypochlorite and calcium hypochlorite.

24. (Previously Presented) The hydrostatic delivery system according to claim 1, wherein said hydrostatic delivery system is in the form of a multiparticulate matrix tablet, or a capsule.

25. (Previously Presented) The hydrostatic delivery system according to claim 1, further comprising an enteric coating or one or more pH sensitive barrier polymers.

26. (Previously Presented) The hydrostatic delivery system according to claim 2, wherein the agent of interest is selected from the group consisting of analgesic, anti-inflammatory, antimicrobial, amoebicidal, trichomonocidal agents, anti-Parkinson, anti-malarial, anticonvulsant, anti-depressants, antiarthritics, anti-fungal, antihypertensive, antipyretic, anti-parasite, antihistamine, alpha-adrenergic agonist, alpha blocker, anesthetic, bronchial dilator, biocide, bactericide, bacteriostat, beta adrenergic blocker, calcium channel blocker, cardiovascular drug, contraceptive, decongestants, diuretic, depressant, diagnostic, electrolyte, hypnotic, hormone, hyperglycemic, muscle relaxant, muscle contractant, ophthalmic, parasympathomimetic, psychic energizer, sedative, sympathomimetic, tranquilizer, urinary, vaginal, viricide, vitamin, non-steroidal anti-inflammatory, angiotensin converting enzyme inhibitors, polypeptide, proteins, and sleep inducers.

27. (Previously Presented) The hydrostatic delivery system of claim 1, further comprising one or more pharmaceutical excipients selected from the group consisting of a viscosity enhancer, an enteric polymer, a pH-specific barrier polymer, a diluent, an anti-adherent, a glidant, a binder, a solubilizer, a channeling agent, a wetting agent, a buffering agent, a flavorant, an adsorbent, a sweetening agent, a colorant and a lubricant.

28. (Previously Presented) The hydrostatic delivery system of claim 1, further comprising an adjuvant.

29. (Previously Presented) The hydrostatic delivery system of claim 1, wherein said hydrostatic delivery system is a matrix solid compact, made by a compression or pelletization method.

30. (Previously Presented) The hydrostatic delivery system of claim 1, wherein said hydrostatic delivery system is a matrix extrusion spheroid, made by a wet or dry extrusion method.

31. (Previously Presented) The hydrostatic delivery system of claim 1, wherein said hydrostatic delivery system is granulated or microencapsulated to form particulates that may be compressed into solid compacts or filled into capsules.

32. (Currently Amended) The hydrostatic delivery system of claim 1, wherein said hydrostatic delivery system is in the form of a granulated blend, a particulate blend, a spheroidal blend, a compact blend, or a dry blend, and wherein said hydrostatic delivery system is fillable into a capsule or is ~~suspenadable~~ suspendable in a suitable liquid vehicle.

Claim 33 (Cancelled).

34. (Previously Presented) The hydrostatic delivery system according to claim 1, wherein said one, or more than one hydrodynamic fluid-imbibing polymer comprises one or more of the compounds selected from the group consisting of:

- i) an acrylic-acid polymer cross-linked with allylsucrose or allylpentaerythritol;
- ii) one or more starch derivatives cross-linked by epichlorhydrin, phosphorous oxychloride (POCl_3), or sodium trimetaphosphate;
- iii) a crosslinked polyglucan;
- iv) a crosslinked polyacrylate resin;
- v) a crosslinked polyethylenimine;
- vi) a crosslinked polyallylamine, and

a combination thereof.

35. (Previously Presented) The hydrostatic delivery system according to claim 1, wherein said one, or more than one hydrostatic pressure modulating agent comprises one or more of the compounds selected from the group consisting of:

- a) a homopolymer of cross-linked N-vinyl-2-pyrrolidone;
- b) a rapidly expanding cross-linked cellulose derivative; and

a combination thereof.

36. (New) A hydrostatic delivery system comprising a hydrostatic couple and an agent of interest, the hydrostatic couple comprising at least one hydrodynamic fluid-imbibing polymer and at least one hydrostatic pressure-modulating agent, wherein:

the hydrostatic pressure-modulating agent comprises a hydrophilic cross-linked polymer;

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the hydrodynamic fluid-imbibing polymer and the hydrostatic pressure-modulating agent are present at a ratio of from about 99:1 to about 50:50 by weight; and

the hydrostatic couple establishes a positive hydrostatic differential pressure against a fluid environment.